

U.S. Patent Application Serial No. 10/761,271
Reply to Office Action dated October 18, 2007

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for segmenting an initial region on a display into a set of at least two newly-created independent regions using an input device, the initial region comprising a bounded area or volume of the display, the display including one or more regions within a larger area or volume, the set of newly-created independent regions arranged into a matrix of equally-sized regions, wherein the equally-sized regions in aggregate equal the dimensions of the initial region, the input device being adapted to convert a user input into a two or three-dimensional position, the method comprising:

entering an interactive segmenting mode; then

detecting the initial position of the input device at the time of entering the interactive segmenting mode;

continually performing the following steps until the interactive segmenting mode remains:

monitoring ongoing movements of the input device,

continually computing a number of equidistant horizontal and vertical splits to apply to the initial region as a function of the distance of the input device to the initial position, wherein segmentation of the region is computed by equally sectioning the

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region into rows and/or columns by dividing in both x and y directions the distance from the current pointer position to the position of the pointer as it was when the user entered the segmenting mode with a constant scaling factor applied to the distance and using the result to determine the number of equal sized horizontal and vertical splits; and

indicating positions of the pending splits to a user;

leaving the interactive segmenting mode;

replacing the initial region with the set of newly-created independent regions at the positions previously indicated to the user.

2. (Original) The method of claim 1 wherein the display further associates a visual control with each region which enables interactive splitting mode, said control to be rendered visible either upon selection of the region, upon entry into the region by a pointing device, or at all times.

3. (Original) The method of claim 1 wherein the step of entering and leaving the interactive segmenting mode comprises pressing a button on a computer mouse over a visual control associated with one of the selected regions and subsequently releasing the button.

4. (Original) The method of claim 1 wherein the step of entering and leaving the interactive segmenting mode comprises pressing a key on the keyboard and subsequently releasing it.

5. (Cancelled)

6. (Currently Amended) The method of claim 1 wherein said distance is the segmentation of the region is computed by independently sectioning the region into rows and/or columns as a

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function of the number of times the user has pressed keys on the keyboard indicating that horizontal or vertical segmentation should be increased or decreased.

7. (Currently Amended) The method of claim 1 wherein the segmentation is applied to the region when the segmenting mode is exited, and the user is further able to abort segmentation, the method for aborting comprising pressing a key.
8. (Original) The method of claim 1 wherein the user further receives interactive visual feedback via an overlaid set of lines on the region indicating the actual location of row and/or column divisions that result from his interaction with the input device.
9. (Previously Presented) The method of claim 1 wherein the user further receives interactive visual feedback via an overlaid grid display indicating the number of rows and/or columns that result from his interaction with the input device.
10. (Original) The method of claim 1 wherein the segmentation of the original region(s) replaces those region(s) with new, independent regions according to the segmentation selected by the user.
11. (Original) The method of claim 10 wherein the material contained within the original region(s) are retained within one of the newly-created regions.
12. (Original) The method of claim 1 wherein the segmentation of the original region(s) is stored as a collection of subregions of the original region, which continues to exist within the system.
13. (Currently Amended) A computer readable medium having computer instructions stored thereon for implementing a method for segmenting an initial region on a display into a set of at

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least two newly-created independent regions using an input device, the initial region comprising a bounded area or volume of the display, the display including one or more regions within a larger area or volume, the set of newly-created independent regions arranged into a matrix of equally-sized regions, wherein the equally-sized regions in aggregate equal the dimensions of the initial region, the input device being adapted to convert a user input into a two or three-dimensional position, the method comprising:

entering an interactive segmenting mode; then

detecting the initial position of the input device at the time of entering the interactive segmenting mode;

continually performing the following steps until the interactive segmenting mode remains:

monitoring ongoing movements of the input device,

continually computing a number of equidistant horizontal and vertical splits to apply to the initial region as a function of the distance of the input device to the initial position, wherein segmentation of the region is computed by equally sectioning the region into rows and/or columns by dividing in both x and y directions the distance from the current pointer position to the position of the pointer as it was when the user entered the segmenting mode with a constant scaling factor applied to the distance and using the result to determine the number of equal sized horizontal and vertical splits; and

indicating to a user positions of the pending splits;

leaving the interactive segmenting mode,

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replacing the initial region with the set of newly-created independent regions at the positions previously indicated to the user.

14. (Original) The computer readable medium of claim 13 wherein the display further associates a visual control with each region which enables interactive splitting mode, said control to be rendered visible either upon selection of the region, upon entry into the region by a pointing device, or at all times.
15. (Original) The computer readable medium of claim 13 wherein the step of entering and leaving the interactive segmenting mode comprises pressing a button on a computer mouse over a visual control associated with one of the selected regions and subsequently releasing the button.
16. (Original) The computer readable medium of claim 13 wherein the step of entering and leaving the interactive segmenting mode comprises pressing a key on the keyboard and subsequently releasing it.
17. (Cancelled)
18. (Currently Amended) The computer readable medium of claim 13 wherein said distance is the segmentation of the region is computed by independently sectioning the region into rows and/or columns as a function of the number of times the user has pressed keys on the keyboard indicating that horizontal or vertical segmentation should be increased or decreased.
19. (Currently Amended) The computer readable medium of claim 13 wherein the segmentation is applied to the region when the segmenting mode is exited, and the user is further able to abort segmentation, the method for aborting comprising pressing a key.

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20. (Original) The computer readable medium of claim 13 wherein the user further receives interactive visual feedback via an overlaid set of lines on the region indicating the actual location of row and/or column divisions that result from his interaction with the input device.
21. (Previously Presented) The computer readable medium of claim 13 wherein the user further receives interactive visual feedback via an overlaid grid display indicating the number of rows and/or columns that result from his interaction with the input device.
22. (Original) The computer readable medium of claim 13 wherein the segmentation of the original region(s) replaces those region(s) with new, independent regions according to the segmentation selected by the user.
23. (Original) The method of claim 22 wherein the material contained within the original region(s) are retained within one of the newly-created regions.
24. (Original) The computer readable medium of claim 13 wherein the segmentation of the original region(s) is stored as a collection of subregions of the original region, which continues to exist within the system.
25. (New) The method of claim 1, wherein said independent regions are adapted to be manipulatable by the user via translation, scaling, rotation and cropping via user interface controls provided for that effect, wherein translation includes the ability to overlap peer frames.
26. (New) The computer readable medium of claim 13, wherein said independent regions are adapted to be manipulatable by the user via translation, scaling, rotation and cropping via user interface controls provided for that effect, wherein translation includes the ability to overlap peer frames.